

1.0 INTRODUCTION

This report is a summary of the construction of two of the Muscoy Operable Unit Extraction Wells, Phase I, Well Nos. 108 and 112.

1.1 PROJECT DESCRIPTION

The Muscoy Plume Operable Unit Remedial Action includes the construction of five new groundwater extraction wells that will connect via a new pipeline to the San Bernardino Municipal Water Department (SBMWD) water treatment plant located on 19th Street.

Phase I construction included site demolition at two well sites and the construction of Well Nos. 108 and 112, construction of a new pipeline, and construction of a temporary waste pipeline for the 30-day pump test of Well No. 112.

Quest Environmental was contracted to provide the demolition work for the two sites and Layne Christensen Company was contracted for the well drilling and construction services.

2.0 CONSTRUCTION SUMMARY

2.1 CONSTRUCTION COMPLETED

EPA WELL NO. 112:

Site Demolition - Site demolition was completed in November 2000.

Well Drilling - Well drilling began on February 20, 2001 and was completed on March 12, 2001.

Well Construction - Well construction began on March 13, 2001 and was completed a few days later.

Well Development - Mechanical development and development pumping took place between March 15, 2001 and April 23, 2001.

Electrical Equipment - The electrical equipment was installed in late March and early April.

Yield and Step Test - The yield and step test was done on April 26, 2001.

Aquifer Test - The 30-day aquifer test began on May 11, 2001.

Plumbness and Alignment Test - The plumbness and alignment log and video of the well was completed on July 9, 2001.

EPA WELL NO. 108:

Site Demolition - Site demolition was completed in November 2000.

Well Drilling - Well drilling began on April 16, 2001 and was completed on May 2, 2001.

Well Construction - Well construction began on May 4, 2001 and was completed a few days later.

Well Development - Mechanical development and development pumping took place between May 7, 2001 and June 16, 2001.

Yield and Step Test - The yield and step test was done on June 18, 2001.

Constant Flow Test - The 72-hour flow test started on June 19, 2001 and was completed on June 21, 2001.

Plumbness and Alignment Test - The plumbness and alignment log and video of the well was completed on July 9, 2001.

2.2 PROBLEMS ENCOUNTERED

Problem - Delays caused by drilling contractor.

Solution - The specification for the construction of future EPA wells will contain the following language:

The Contractor will provide written notice to the Engineer seven days in advance of starting each of the following construction activities:

- Conductor Casing Installation
- Drilling of Pilot Bore
- 72-Hour Aquifer Test

Additionally, the Contractor will provide written notice to the Engineer three days in advance of starting the well casing installation.

The owner will deduct a \$1,000.00 per day penalty from the contract for each day the Contractor deviates from the written notice provided to the Engineer.

Problem - Delay caused by SBMWD. The electrical panel installed by the SBMWD at EPA Well No. 112 was sized for the completed 2500 gpm well. The panel was undersized to provide the amperage needed to run the well at 4000 gpm for the aquifer test.

Solution - The electrical panel was upsized to meet the requirements of the aquifer test.

2.3 FIELD PERSONNEL

The following agencies were involved in the construction of Well Nos. 108 and 112:

- The SBMWD performed the contract management and inspection of the demolition, well drilling, and well construction processes. Steve Ledbetter was the Construction Manager and was assisted by Robert Lindberg. Steve Ledbetter reported to James Dye, the SBMWD Senior Engineer.
- Quest Environmental conducted the site demolition work. Richard Macias was the contact person for Quest Environmental.
- Layne Christensen Company completed the well drilling and construction. Jim Hausladen was the contact person for Layne Christensen Company.
- URS provided an onsite Geologist during the drilling and casing placement of each well. During the drilling of Well No. 112, URS provided onsite safety personnel to monitor the ambient air for contaminants. No contaminants were detected.

2.4 COMMUNITY RELATIONS

PUBLIC RELATIONS TEAM ACTIVITIES - YEAR 2000-2001:

February 22, 2000 - The EPA/SBMWD held a community meeting with Westside residents to present and discuss the proposed EPA Newmark Groundwater Contamination Superfund Project. The meeting was held at Martin Luther King School located at 1250 Medical Center Drive.

The presentation was not received very well. People were argumentative and disruptive. The presentation include the following:

- History of the project and how we got to this point.
- Community Input.
- Questions and Answers.

Community Issues and Concerns:

- Resistant to the project.
- Property values will go down.
- No notification of project or construction.
- No input was solicited.

- Why demo a house in their neighborhood.
- Move project to vacant lot.
- Need more meetings.

EPA Response:

- Delay start of the Muscoy OU Well project.
- Schedule more meetings prior to construction.
- Send project notices 10 - 14 days prior to construction.
- Install project information bulletin board at each well site.
- Update bulletin board monthly.
- Update project schedule on cable, Channel TV 3.
- List job opportunities on bulletin board.
- Create water video to educate the City about EPA well project.
- Get professional opinion of property values.

March 7, 2000 - The SBMWD met with Pastor Ray Turner/Temple Missionary Baptist Church. Explained and discussed the proposed EPA Muscoy OU Well project scheduled for construction in the Westside Community. He is in favor of the project.

March 20, 2000 - The SBMWD met with members of the Westside Community at Martin Luther King School to discuss the status of the EPA well project. The residents were disruptive and voiced that there was not anyone representing EPA who could make decision on the status of the EPA well construction project. The residents requested to meet at a later date.

April 19, 2000 - Met with Public Relation Consultant in the SBMWD Yards Classroom to discuss community approach to the EPA project.

Decisions from this meeting:

- Develop a video
- Community meetings
- Involve councilmembers
- Construct façade homes
- Mitigate all impacts
- Introduce the community to other sources of funding.

April 25, 2000 - The SBMWD met with resident of the Westside Community in the SBMWD Boardroom at 11:00 a.m.

Issue: EPA Muscoy OU Well project. He is in favor of the project.

The SBMWD met with the resident Pastor in the SBMWD Boardroom at 1:00 p.m.

Issue: EPA Muscoy OU Well project. He is in favor of the project.

The SBMWD met with a resident in the SBMWD Boardroom at 1:30 p.m. The resident is in favor of the project.

April 26, 2000 - The SBMWD met with residents and members of the Westside Community Watch Association at 11:00 a.m. in the MIC Room of the Mayor's Office, City Hall.

Issue: Muscoy OU EPA Well project. They are in favor of the project.

April 27, 2000 - The SBMWD met with the Northwest PAC members at 1550 Highland Avenue, Public Enterprise Building at 11:00 a.m.

Issue: EPA Muscoy OU Well project. The members are in favor of the project.

May 1, 2000 - The SBMWD met with resident of Westside Community at 9:00 a.m. in the SBMWD Boardroom.

Issue: EPA Muscoy OU Well project/Camp Ono. The resident is in favor of the project.

The SBMWD met with Mr. Carl Dameron, member of the Westside Action Group (WAG) at 10:30 a.m. in SBMWD Boardroom.

Issues: EPA Muscoy OU Well project and community relations approach.

The SBMWD met with Mr. Michael Mathis, Real-Estate Specialist in the SBMWD Boardroom.

Issue: Professional opinion on property values on Virginia Street. (No negative impact on neighborhood.)

May 2, 2000 - The SBMWD met with Mrs. Cheryl Brown/Black Voice Newspaper at the Riverside office.

Issue: She is in favor of the EPA Muscoy OU Well project.

The SBMWD met with Ms. Lita Pezant/Westside Story Newspaper.

Issue: EPA Muscoy OU Well project. She is in favor of the project.

May 3, 2000 - The SBMWD met with Mr. Brian of the Townsen/Precinct Reporter Newspaper at 2:00 p.m. in the MIC Room of the Mayor's Office, City Hall.

Issue: EPA Muscoy OU Well project impacts the neighborhood.

May 4, 2000 - The SBMWD met with Westside Neighborhood Watch Association at 6:00 p.m. at the Community Service office, Area "A" at 1584 West Baseline Street, Suite 106.

Issue: EPA Muscoy OU Well project impacts the neighborhood.

May 8, 2000 - The SBMWD met with Virginia Street resident in the MIC Room of the Mayor's Office, City Hall.

Issue: EPA Muscoy OU Well project. The resident is totally against the project. He believes that the project will bring down the value of the homes in the neighborhood and wants monetary compensation and jobs for the community.

The SBMWD met with the Westside Action Group (WAG) members at the Boys and Girls Club on 9th Street in San Bernardino.

Issue: EPA Muscoy OU Well project. The group is in favor of the project and suggested that the community may better receive the project if someone from the community presented the project to the community.

May 9, 2000 - The SBMWD met with Mr. Bill Jacocks, member of WAG and Creative Business Services, Inc.

Issue: Public relations proposal.

May 15, 2000 - The SBMWD met with Mr. Frank Stallworth and Bob Campbell, representatives for Senator Nell Soto, 32 District California Legislature, Sacramento, California.

Issue: EPA Muscoy OU Well project. They are in favor of the project.

May 16, 2000 - The EPA/SBMWD met individually with neighbors living in close proximity of the proposed well facilities to discuss their concerns.

Resident on Virginia Street, east of the EPA Well No. 12 has a health issue. She is on a portable breathing (oxygen) machine continuously. She is opposed to leaving her home during the well construction.

Resident on 20th Street, east of the 19th Street Plant is concerned about the expansion of the GAC units. He is opposed to the trucks using 20th Street as an entrance to the plant. He says that the plant is noisy and it emits some white stuff that settles on his car and is difficult to remove.

May 17, 2000 - The SBMWD met with Mr. M. Gerald, Principal of Roosevelt Elementary School for permission to use the school facilities to hold a community meeting for the 2nd Ward

residents. The EPA and the SBMWD will discuss their concerns and issues about the proposed construction of the EPA Well at 1335 Garner Street.

June 1, 2000 - Tapping of the EPA Muscoy OU Well project in the CHTV 3 studio.

June 2, 2000 - Ms. Elane of Lighthouse Production, Inc. video taped water-related scenes of Westside Community for public announcement to be aired on Channel TV 3.

June 11, 2000 - The SBMWD met with Councilwoman Betty Anderson to give her an update on the EPA Muscoy OU Well project.

June 12, 2000 - Met with the Westside residents at Martin Luther King School at 1250 Medical Center Drive to discuss the EPA Well construction project.

June 13, 2000 - Meeting at Roosevelt Elementary School at 1554 North Garner Avenue to discuss the EPA Well construction project.

June 13, 2000 - Met with Councilwoman Betty Anderson to discuss the proposed 19th Street Plant construction.

August 2, 2000 - Community Relations team and Technical team meeting in San Francisco at the EPA office.

August 7, 2000 - USEPA News Release-Newmark Groundwater Well.

August 9, 2000 - Met with resident next door to EPA Well No. 10 on Garner Street. He proposes EPA/SBMWD to install a fence between his property and the well site as a noise barrier and to provide privacy for his family. He was assured that a wall would be provided.

August 24, 2000 - Met with Ms. Maggie Pacheco/Director of Housing and Community Development Department, EDA to discuss community assistance programs that the residents can take advantage of to beautify their neighborhood.

August 28, 2000 - Mr. Mansie Booker, Jr./City of San Bernardino Telecommunications video taped Mr. Mike Garland/SBMWD discussing the operation of the 19th Street Plant and the proposed plant expansion.

August 30, 2000 - Met with 20th Street resident near the entrance of the 19th Street Plant. His concerns about the plant expansion are:

- Noise of the plant.
- Discharge of white substance from the existing GAC vessels that fall on his car.

- The GAC units are ugly and would like to see them in a building or a façade built to hide the units.
- Truck traffic to the plant.
- He is not pleased about the expansion of the project.

EPA/SBMWD comments to resident's concerns:

- Do not anticipate additional noise levels to increase.
- Pumps will be submersible (below surface grade).
- Sound barriers will be installed around equipment.
- The entrance to and exit from the plant is proposed for Highland Avenue.
- Indicate that there are no known substances being discharged into the air from the GAC units.

September 5, 2000 - Councilwoman Susan Lien/2nd Ward committed to provide the invitation letter (102 copies) for the September 14 meeting at the Lutheran Church.

September 8, 2000 - Mr. Sherman Ellison Coordinator/Second Chance Program is concerned whether there will be any jobs for the Westside youth.

A resident on the north side of 20th Street adjacent to the 19th Street Plant west entrance is not pleased about the expansion of the 19th Street GAC Units. The resident would like to see some type of architectural treatment and landscaping to block the view of the GAC units.

September 12, 2000 - Provided Councilwoman Susan Lien a copy of the EPA well concept designs and a copy of the video.

September 14, 2000 - Community meeting, 2nd Ward, Central City Lutheran Mission Church, 1354 North "G" Street at 7:00 p.m. to discuss "G" Street design concept. People in attendance do not want a façade house at the well site but a "Pocket Park."

September 25, 2000 - CATV Video Taping - EPA Well Project "Good Neighbors Program."

October 2000 - Fact sheet announcing the start of the EPA Muscoy OU Well project.

October 2, 2000 - Prepared Virginia Street EPA Well site invitation to discuss the well site construction alternatives (façade houses).

October 3, 2000 - Hand-delivered flyers to the Westside Community. Notice - Pipeline construction on Pennsylvania Street and to announce the forthcoming community meetings at 1580 Virginia Street and 1306 North "G" Street.

October 5, 2000 - Met with Councilwoman Betty Anderson (6th Ward) and Councilwoman Susan Lien (2nd Ward). Update of EPA Well project.

October 9, 2000 - Met with resident of "G" Street community to discuss the Art Mural design at the "G" Street Well site.

October 19, 2000 - The SBMWD met with Councilwoman Susan Lien to discuss the "G" Street site design concept and Youthbuild organization to construct the park and facilities.

October 24, 2000 - Rented canopy, tables, chairs, and lights from Party Plus rentals for the Community Focus Meetings at the Virginia Street and "G" Street sites.

October 25, 2000 - A community meeting was held at 1580 West Virginia Street at 6:00 p.m. - Discuss the façade alternatives. Alternative "D" was chosen.

October 26, 2000 - A community meeting was held at the Lutheran Mission, 1306 North "G" Street to discuss the "G" Street EPA Well site.

November 1, 2000 - The SBMWD met with Westside resident. Resident made the comment that there needs to be more meetings and community involvement in the EPA Well construction project.

November 8, 2000 - The SBMWD/EPA met with Mrs. Betty Bibbee and Mr. David Kalky at the Central Lutheran Mission to discuss the design of the proposed "G" Street Park/Playground redesign.

November 14, 2000 - The SBMWD met with Westside Neighborhood Watch Cluster Association at the Community Service Office, Area "A" at 1584 West Baseline Street, Suite 106. The Groundwater Contamination Superfund project was presented. The people in attendance were positive about the project.

November 16, 2000 - The SBMWD met with Ms. Diane Jaquith, Director of Youthbuild Program at 1390 North "D" Street. Youthbuild is interested in constructing the EPA Well sites facades and park/playground.

November 29, 2000 - SBMWD/City of San Bernardino attend the 7th Annual Improved Water Conference at CTAC, 6090 North Irwindale Avenue, Irwindale, California.

November 30, 2000 - The SBMWD met with the San Bernardino High School Neighborhood Association (12 members attended meeting) at the Central Christian Church, 1696 North "G" Street. The EPA Newmark Groundwater Contamination Superfund project was discussed. The members were in favor of the project going forward.

December 6, 2000 - Notice (flyers) to demolish 1580 Virginia Street went out to the community.

December 7, 2000 - Notice (flyers) to demolish 1306 North "G" Street went out to the community.

December 20, 2000 - Bulletin boards for Garner Street and Home Street installed.

December 21, 2000 - Notice (flyers) 30" pipeline construction change went out to the community.

January 4, 2001 - Notice (flyers) start of well construction at 1580 Virginia Street went out to the community.

January 10, 2001 - The preconstruction meeting for the drilling of the EPA Well No. 12 at 1580 Virginia Street was held in the SBMWD Yards Classroom. The contractors were told of the community sensitivities to the well construction project.

January 24, 2001 - The SBMWD met with Mr. Booker of CHTV 3 regarding the EPA Well construction project schedule to be run on Channel 3.

January 26, 2001 - Mr. Klyde Layon of the City of San Bernardino Telecommunications, CHTV 3 to make correction to job opportunity bulletin.

February 6, 2001 - Received complaints from the neighbors on Virginia Street about the dirt and debris creating a nuisance. Ray of Doty Brothers Construction was notified to clean up the well site.

February 8, 2001 - Well drilling sites were inspected and the neighbors had the following concerns:

- "G" Street Well site needed dust control measures taken.
- Piles of dirt needed to be removed or spread (graded) over the site.
- Fence is needed around the property. The SBMWD crews were assigned to mitigate the neighbor's issues.
- Provided free car wash coupons to residents.

February 15, 2001 - Well drilling at 1580 Virginia Street site is scheduled to start.

February 22, 2001 - Virginia Street residents expressed concern about the scheduled well drilling project:

- Contractors start work (staging equipment) before 7:00 a.m.
- Contractors' vehicles blocking roadway.

The Contractor was contacted and notified of the neighbor's concerns and instructed that no work shall begin before 7:00 a.m. and that they should park their vehicles on the north side of the road leaving room for through traffic.

February 23, 2001 - The SBMWD met with resident in the MIC Room of the Mayor's Office. The resident voiced the following concerns:

- Resident believes that EPA/SBMWD got the well site property by illegal means ("stole the property").
- The residents should be compensated for the EPA project coming to his neighborhood.
- Resident believes that the neighbors are being exploited and that this type of project would not be constructed on the northwest side of town.
- Why is it necessary to tear down a perfectly good house in the neighborhood and why wasn't a vacant lot chosen as the well site?

March 1, 2001 - Purchased prepaid car wash coupons to be handed out to the residents whose cars/trucks have been impacted by dirt and mud from the EPA well and pipeline construction activities.

March 13, 2001 - The SBMWD met with Virginia Street residents at the Community Service Office, Area "A" at 1584 West Baseline Street, Suite 106. The SBMWD asked the residents to prepare a list of items that they were requesting be addressed by the SBMWD as a result of the well drilling operations and to provide information regarding the various grants that were available from Economic Development Agency (EDA) to improve or beautify the neighborhood.

The residents voiced their concerns about impacts of well drilling operation in the neighborhood:

- Mud and dirt in the street.
- Cracked sidewalks/driveways.
- The dirt is being tracked and blown into the residents' homes soiling their carpet and window draperies.
- Noise
- Cars are getting dirty.

Ms. Maggie Pacheco/EDA presented material on grants and other home beautification programs that are available to homeowners if they are eligible. (They must apply for these grants.)

SBMWD Response:

- We will consider any legitimate claim that is construction damage related.

- Ask the residents to develop a list of their "needs" and get back to us in ten days.
- The EPA nor the SBMWD will give money for pain and suffering.
- The SBMWD/EPA will pave Virginia Street after the pipeline construction is completed.

March 27, 2001 - Met with Ms. Guadalupe Cardoza, Principal of Riley Elementary School at 1266 North "G" Street. Information on EPA well construction and well drilling schedule was discussed. She and her staff had the following concerns:

- Construction Noise - There are classrooms and playgrounds facing the project site.
- The safety of the children walking to and from school.
- There is limited parking in the area.

SBMWD Response:

Twenty-five to thirty foot noise blankets will be erected around the well drilling site to mitigate excessive construction noise.

The crossing guards are on duty to ensure that the children and parents in the area may bring their children to and from school. The contractor was instructed not to use the south side of 13th Street and the school parking lot for parking their vehicles.

April 10, 2001 - Mr. and Mrs. Carlos Benavides at 1312 North "G" Street gave their permission allowing the EPA/SBMWD access to their property in order to remove a tree and shrubs and install a fence along the north side of EPA Well property and their home.

April 16, 2001 - Mr. Wesley Jefferson, County of San Bernardino Small Business agreed to supply EPA/SBMWD a list of minority contractors in the local area to assist in compiling a contractor list for invitation to a Contractor Workshop.

April 18, 2001 - Ms. Veronica/County of San Bernardino Small Business will develop the contractor list.

April 20, 2001 - A resident complained that her cloths were being soiled by well construction activities while drying outside on her cloth line.

The SBMWD agreed to reimburse the resident if she takes her clothing to the Laundromat for cleaning and drying.

A resident is requesting a response to her written concerns regarding claims and issues as they relate to the EPA Well construction.

A resident on "G" Street is concerned about the tree removal from his yard. The tree is large and provides shade to his property. He would like to have two trees in its place. The SBMWD agreed to his request.

May 1, 2001 - The SBMWD met with the San Bernardino County Nutrition Program, county workers at 777 East Rialto Avenue. The SBMWD presented the Newmark Groundwater Contamination Project/EPA Well Construction. EPA fact sheets - Project concept design graphs and scheduling material was given out. The presentation was received positively and the workers had general concerns about:

- The quality of water.
- Is the water safe to drink?
- What are the contaminants?
- How did it get into the water?
- How will the contaminants be filter out?
- EPA well construction projects.

May 2, 2001 - Virginia Street resident requested a coupon to have his car washed. He was given a coupon for Sparkle Car Wash.

May 3, 2001 - Met with two Virginia Street residents in Stacey Aldstadt's office (SBMWD). They wanted to know if EPA/SBMWD made any decisions to grant their claims that they had submitted.

The following mitigation was agreed to:

- Replace windows
- Repair driveway
- Clean carpet and window draperies

May 8, 2001 - Virginia Street resident called to complain about the leaking water at the 1580 EPA well site creating a breeding ground for roaches and lizards which were invading her home. Also, the portable john smells.

The contractor was contacted, the water leak was fixed, and the portable john was moved to the rear of the well site property.

May 17, 2001 - EPA/SBMWD met with Virginia Street residents at the Community Service Office, 1574 West Baseline Street, Suite 103.

Virginia Street residents wanted to know if the EPA/SBMWD has made any decision to grant their requests for the items they had listed in their request.

May 18, 2001 - Ms. Debra Daniel, Mayor's Office and the SBMWD coordinate with Santos of the Los Padrinos to remove junk and debris from Mrs. Lucendia Johnson's backyard at 1539 West Virginia Street.

May 22, 2001 - The EPA/SBMWD held the Contractors Workshop to discuss the EPA project and job opportunities for general and subcontractors.

May 30, 2001 - The SBMWD hand-delivered Notice (flyers) inviting residents to attend a community meeting to discuss the design alternative for Home Street and Garner Street EPA Well project.

June 6, 2001 - Community Meeting held at 1335 Garner Street.

The residents were in favor of the EPA Well project and the façade house design.

June 7, 2001 - Community meeting held at 980 Home Street. The residents split in favor of the park/playground and the façade house design.

Other concerns voiced by the residents:

- Need curd/gutter and sidewalks.
- Open field needs weeding.

Resident of Virginia Street voiced a complaint that she was not notified of any work to be done at the Virginia Street Well site and that she hung her cloths out to dry and they were soiled by the SBMWD crews cleaning up the site.

The SBMWD reimburse resident for her cleaning.

June 14, 2001 - The SBMWD met with Virginia Street resident to coordinate the removal of the tree that fell in her front yard due to the vibration from the well drilling activities.

June 15, 2001 - Virginia Street resident requested car wash coupons. The resident was given one coupon.

June 19, 2001 - Delivered flyers to the Virginia Street residents "Free Dump Day" sponsored by the City of San Bernardino.

June 23, 2001 - The SBMWD crew maintained the EPA Well site during the "Free Dump Day."

June 28, 2001 - The SBMWD received a complaint from Virginia Street resident about the EPA well drilling operation.

June 29, 2001 - Met with resident at his house. He complained about the noise and vibrations from the EPA well drilling activities. He said that his wife was stressed out because the

noise was unbearable. He pointed out cracks on the ceiling of his living area and cracks on the exterior walls of the house which were due to the vibration from the drilling.

July 2, 2001 - The SBMWD coordinated the removal of a tree and the planting of two trees for "G" Street resident.

July 31, 2001 - The Garner Street resident requested that the SBMWD extend the block wall to the perimeter of his property. The SBMWD agreed only to install the additional portion of the block wall on the easterly side of his property.

August 15, 2001 - 1335 Garner Avenue - Block wall construction started.

August 28, 2001 - 1335 Garner Avenue - Block wall was completed.

August 29, 2001 - Five sites for the proposed monitoring well were field investigated and photographed.

September 11, 2001 - At the request of the SBMWD, Mr. Jack Masters, Building Inspector for the City of San Bernardino inspected the alleged damages to a resident's home at 1591 West Virginia Street. In Mr. Masters professional opinion, it is not conclusive that the cracks were the results of the drilling operations.

September 13, 2001 - Schedule window installation for Virginia Street residents.

September 18, 2001 - Delivered flyers (Notice/Letter) inviting neighbors to Open House at 980 Home Street.

September 20, 2001 - Virginia Street resident inquired about the outcome of their home being inspected.

September 25, 2001 - Virginia Street window installation was completed.

November 5, 2001 - Pico Avenue bulletin board installed.

November 14, 2001 - Open House at Martin Luther King School to discuss the construction of the five monitoring wells.

November 15, 2001 - Open House at 1396 Pico Avenue. The turnout was good and the residents had decided that the house façade would be good for their neighborhood.

2.5 CHANGE ORDER SUMMARY

The original contract price from Layne Christensen Company for drilling, construction, development, and test pumping both Well Nos. 108 and 112 was \$902,468.00.

The following is a list of additions and deductions from the contract and a total of the net contract construction costs:

Original Contract Price	\$902,468.00
Deduct Sidewall Sampling Well No. 108	(1,000.00)
Deduct Sidewall Sampling Well No. 112	(1,000.00)
Deduct For 72-Hour Test Well No. 112	(13,320.00)
Add For 110 Extra Feet of Completed Well No. 108	17,710.00
Add For Extra Development Pumping Well No. 108	900.00
Deduct For Spinner Tube Well No. 108	(3,500.00)
Deduct For Reduced Development Pumping Well No. 112 ...	(2,400.48)
Deduct For Reduced Step Pumping Well No. 112	(2,400.00)
Deduct For Reduced Mechanical Development Well 112 ...	<u>(1,680.00)</u>
TOTAL PAYMENT TO LAYNE CHRISTENSEN COMPANY	\$895,777.52